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<input type="checkbox"/>	L17	pipeline same graphic same processing and logic same unit and connection\$1 and constant\$1 and fog same factor and viewport same transform\$5	4
<input type="checkbox"/>	L16	L14 and fog same factor and viewport	0
<input type="checkbox"/>	L15	L14 and l1	2
<input type="checkbox"/>	L14	graphic same operation and logic same unit same connection and configure and constant	55
<input type="checkbox"/>	L13	graphic same operation and logic same unit same connection and configure and constant	0
<input type="checkbox"/>	L12	graphic same operation and logic same unit same connection and configure and constant	0
<input type="checkbox"/>	L11	l2 and graphic same process\$3 and logic same unit\$1 and operation and constant and connection\$1 and fog and viewport and graphic same adapter	0
<input type="checkbox"/>	L10	l1 and graphic same process\$3 and logic same unit\$1 and operation and constant and connection\$1 and fog and viewport and graphic same adapter	2
<input type="checkbox"/>	L9	graphic same process\$3 and logic same unit\$1 and operation and constant and connection\$1 and fog and viewport and graphic same adapter	20
<input type="checkbox"/>	L8	345/502.ccls.	338
<input type="checkbox"/>	L7	345/561.ccls.	178
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- #4 ( graphics data <in>metadata ) <and> ( graphic operation<in>m...
- #5 ( graphics data <in>metadata ) <and> ( graphic operation<in>m...

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Terms used

**graphic data processing operation and logic unit and common connection**

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### 1 [Status report of the graphic standards planning committee](#)

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3Full text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

### 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...



### 3 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...



### 4 [Draft Proposed: American National Standard—Graphical Kernel System](#)

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SIFull text available: [pdf\(16.07 MB\)](#) Additional Information: [full citation](#)

5 Fortran 8X draft

Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Full text available:  [pdf\(21.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Standard Programming Language Fortran.** This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

6 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
 [html\(2.78 KB\)](#)

7 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages

Computer Graphics staff


September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  [pdf\(9.03 MB\)](#) Additional Information: [full citation](#), [references](#)

8 Special issue: AI in engineering

D. Sriram, R. Joobhani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

9 Geographic Data Processing

George Nagy, Sharad Wagle


June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Full text available:  [pdf\(4.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This

survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

11 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J. Schweppe, William Viavant, David M. Young

March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available:  [pdf\(6.63 MB\)](#)


Additional Information: [full citation](#), [references](#), [citations](#)

**Keywords:** computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

12 Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Full text available:  [pdf\(5.13 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

13 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

14 Object-oriented logical specification of time-critical systems

Angelo Morzenti, Pierluigi San Pietro

January 1994 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 3 Issue 1

Full text available:  [pdf\(3.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We define TRIO+, an object-oriented logical language for modular system specification. TRIO+ is based on TRIO, a first-order temporal language that is well suited to the specification of embedded and real-time systems, and that provides an effective support to a variety of validation activities, like specification testing, simulation, and property proof. Unfortunately, TRIO lacks the ability to construct specifications of complex systems in a system ...

**Keywords:** first-order logic, formal specifications, model-theoretic semantics, object-oriented methodologies, real-time systems, temporal logic

15 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1Full text available:  [pdf\(5.28 MB\)](#) Additional Information: [full citation](#)16 Pen computing: a technology overview and a vision


André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3Full text available:  [pdf\(5.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

17 A formal approach for designing CORBA-based applications

Alberto Coen-Porisini, Matteo Pradella, Matteo Rossi, Dino Mandrioli


April 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 2Full text available:  [pdf\(478.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of distributed applications in a CORBA-based environment can be carried out by means of an incremental approach, which starts from the specification and leads to the high-level architectural design. This article discusses a methodology to transform a formal specification written in TRIO into a high-level design document written in an extension of TRIO, named TRIO/CORBA (TC). The TC language is suited to formally describe the high-level architecture of a CORBA-based application. As a r ...

**Keywords:** CORBA, architectural design, control systems, formal methods, frameworks, object orientation, supervision, temporal logic

18 Computing graphical queries over XML data

Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4Full text available:  [pdf\(707.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

**Keywords:** Document restructuring, graphical query languages, semantics

## 19

External memory algorithms and data structures: dealing with massive data

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available:  pdf(828.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

20 [Research sessions: non-standard query processing: Fast computation of database operations using graphics processors](#)

Naga K. Govindaraju, Brandon Lloyd, Wei Wang, Ming Lin, Dinesh Manocha

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(386.13 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

We present new algorithms for performing fast computation of several common database operations on commodity graphics processors. Specifically, we consider operations such as conjunctive selections, aggregations, and semi-linear queries, which are essential computational components of typical database, data warehousing, and data mining applications. While graphics processing units (GPUs) have been designed for fast display of geometric primitives, we utilize the inherent pipelining and paralleli ...

**Keywords:** aggregation, graphics processor, query optimization, selection query, selectivity analysis, semi-linear query

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2	EEDD	(graphic ADJ operation).FT. AND pipeline.FT. AND (logic ADJ unit).FT. AND (common ADJ connections).FT. AND FULLTEXT=YES	0
3	EEDD	graphics ADJ operation AND viewport ADJ transformation AND fog ADJ factor AND FULLTEXT=YES	0

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